Approved For Release 2008/08/13 : CIA-RDP78B04555A000100060100-3

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FM NPIC

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AFSSO PACAF
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ZEM
T O P S E C R E T TTTTT CITE NPIC 5936.
SSO SAC ALSO FOR 544 ARTW.
SUBJECT: CAMERA INFORMATION FOR MISSION 1050-1 AND 1050-2.
1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, STELLAR CAMERA, AND AN INDEX CAMERA.
2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS(MM)	609.602	609.628	FWD 55.000 AFT 55.000	FWD 54.850 AFT 55.000
FILTER (WRATTEN NR)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.100	.080	NA	NA
EXPOSURE (SEC)	1/100	1/100	NA	NA
FILM	27JC-5	27JC-5	NA	NA
RESOLUTION (L/MM)	190	196	NA	NA
CAMERA NUMBER	210	211	NA	NA

B. S/I UNITS — STELLAR — INDEX

FOCAL LENGTH (MM) PART 1	N O T A V A I L A B L E	
PART 2	A T T H I S T I M E	
FILTER (WRATTEN NR)	NONE	21
APERTURE	F1.8	F4.5
EXPOSURE (SEC)	1.89	1/400
FILM	3401	3400
RESOLUTION (L/MM PART 1	----	82
PART 2	----	85
UNIT NUMBER PART 1	D113/141/145	
PART 2	D114/142/143	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.004	.002	0	0	0	.002	.003
AFT UNIT	.002	.001	0	0	0	.002	.004

B. HORIZON CAMERAS (MM)

	FWD PORT	FWD STAR	AFT PORT	AFT STAR
(RADIAL) 10 DEGREES	.010	.010	.020	.010
20 DEGREES	.030	.050	.040	.030
(TANGENTIAL) MAX VECTOR	.020	.030	.015	.010

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	44.29
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	14	32.2
	FWD PORT	14	12.7
	AFT STAR	15	47.3
	AFT PORT	15	20.3

DISTRIBUTION		
CY	OFFICE	PI
1	FILE	
	CABLE SEC.	
	PP&B/AI 25X1	
	SECUR.	
	TSSG 25X1	
	PSG/OC	
A.	RRD	
	PREPRD	
2	AID	✓
	IPG	
	PROD	
	SCIEN	
	WEST	
	EAST	
	M&S	
	PGM	
	TAS	
	DIA-XX4	
	SPAD	
	DIA-AP	
	25X1	
	CMA	

ADVANCE CY SANITIZED WITH TEXT

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SECRET

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C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS — PART 1 N O T A V A I L A B L E PART 2 A T T H I S T I M E

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL NO.	CPS.	GAV.	AMPL. LEVEL NO.	CPS.	GAV.	PASSES
2	.3953	.0357	6	.0725	.0066	1D AND 2D
3	.3856	.0349	8	.0435	.0039	3D THRU 29
3	.3856	.0349	7	.0590	.0053	30D, 31D, 32D, 34D1
2	.3953	.0357	8	.0435	.0039	34D2 THRU 41D
2	.3953	.0357	6	.0725	.0066	42D THRU 46D
1	.4060	.0367	7	.0590	.0053	47D, 48D

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
PART 1						
1D	19	23	02	55	1033	38
2D	20	00	30	23	969	103
3D1	20	01	59	14	1037	77
3D2	20	02	01	54	1197	35
4D	20	03	29	40	1139	107
5D1	20	04	54	57	935	215
5D2	20	05	02	05	1363	32
6D1	20	06	24	22	982	124
6D2	20	06	36	15	1695	279
7D	20	07	57	28	1245	66
8D	20	09	25	40	1217	55
9AE	20	10	34	45	43	43
9D1	20	10	53	33	1172	166
9D2	20	11	03	04	1743	106
11D	20	14	02	56	1900	52
14D	20	18	38	00	2452	166
16D	20	21	21	03	1698	26
20D	21	03	07	19	1182	217
21D1	21	04	34	30	1088	115
21D2	21	04	43	24	1622	66
22D1	21	06	14	16	1752	27
22D2	21	06	17	39	1955	62
23D	21	07	33	19	1173	61
24D	21	09	05	54	1404	136
25AE	21	10	14	37	204	44
25D1	21	10	31	50	1237	45
25D2	21	10	33	21	1328	137
27D	21	13	38	36	1799	43
29D1	21	16	24	28	1114	34
29D2	21	16	44	15	2301	336
30D1	21	18	09	39	2108	546
30D2	21	18	20	30	2758	178
30D3	21	18	25	09	3038	37
31D1	21	19	29	19	1571	183
31D2	21	19	36	03	1975	95
PART 2						
32D	21	21	00	56	1759	92
34D1	21	23	53	13	0	23
34D2	22	00	01	46	1989	25
35D	22	01	18	17	1213	171
36D1	22	02	46	09	1175	197

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36D2	22	02	51	56	1522	56
37D1	22	04	13	10	1086	225
37D2	22	04	17	52	1368	39
37D3	22	04	19	50	1486	28
37D4	22	04	21	49	1605	43
37D5	22	04	37	58	2574	92
38D1	22	05	40	23	1011	28
38D2	22	05	42	19	1126	196
38D3	22	05	47	04	1411	26
38D4	22	05	48	20	1487	30
38D5	22	05	49	23	1550	413
38D6	22	06	00	01	2188	151
38D7	22	06	03	07	2375	30
38D8	22	06	09	16	2744	54
39D	22	07	09	09	1032	844
40D1	22	08	39	48	1165	572
40D2	22	08	50	38	1815	26
40D3	22	08	51	49	1887	31
41D1	22	10	07	04	1097	39
41D2	22	10	09	10	1223	574
41D3	22	10	19	19	1833	202
41D4	22	10	23	53	2106	34
41D5	22	10	25	00	2173	64
42D1	22	11	41	27	1457	239
42D2	22	11	51	22	2051	350
42D3	22	12	00	18	2587	179
43D1	22	13	03	52	1155	25
43D2	22	13	11	16	1598	26
43D3	22	13	12	17	1660	32
43D4	22	13	14	28	1791	327
43D5	22	13	20	31	2154	97
45D1	22	16	00	36	1161	33
45D2	22	16	03	11	1315	26
45D3	22	16	04	21	1386	60
45D4	22	16	20	41	2366	303
46D1	22	17	47	58	2307	414
46D2	22	17	56	13	2803	144
46D3	22	18	00	48	3077	41
47D1	22	19	04	46	1623	145
47D2	22	19	11	15	2013	164
48D	22	20	35	51	1795	94

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	80623.381	54534.8097	--------
8	150365.341	37876.7772	.008
16	189221.478	76732.9183	.004
25	235625.346	36736.7913	.005
32	274409.405	75520.8545	.004
41	320608.864	35320.3159	.002
48	359371.785	74083.2401	.004

NOTE: ALL "DIFFERENCE" VALUES ARE MINUS.

NOTE: PRELIMINARY INFORMATION INDICATES THAT ALL FILM EXPOSED DURING PART 2 IS BADLY SMEARED OR COMPLETELY UNUSABLE.

GP-1

T O P S E C R E T --END OF MESSAGE--

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